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# **WATER SUPPLY OUTLOOK FOR OREGON**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**OREGON STATE UNIVERSITY and STATE ENGINEER  
of OREGON**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**JAN. 1, 1975**



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course  
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# ***WATER SUPPLY OUTLOOK FOR OREGON***

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

JANUARY 8, 1975

*Issued by*

KENNETH E. GRANT

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SOIL CONSERVATION SERVICE  
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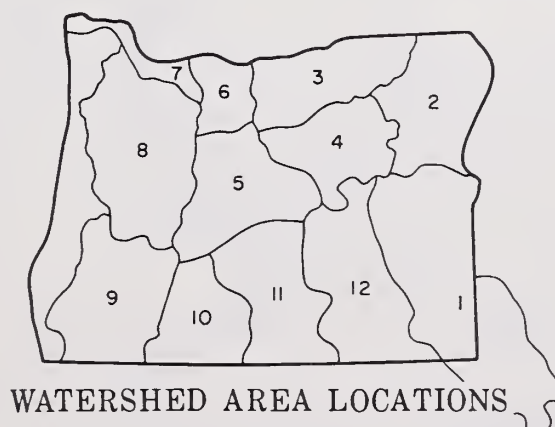
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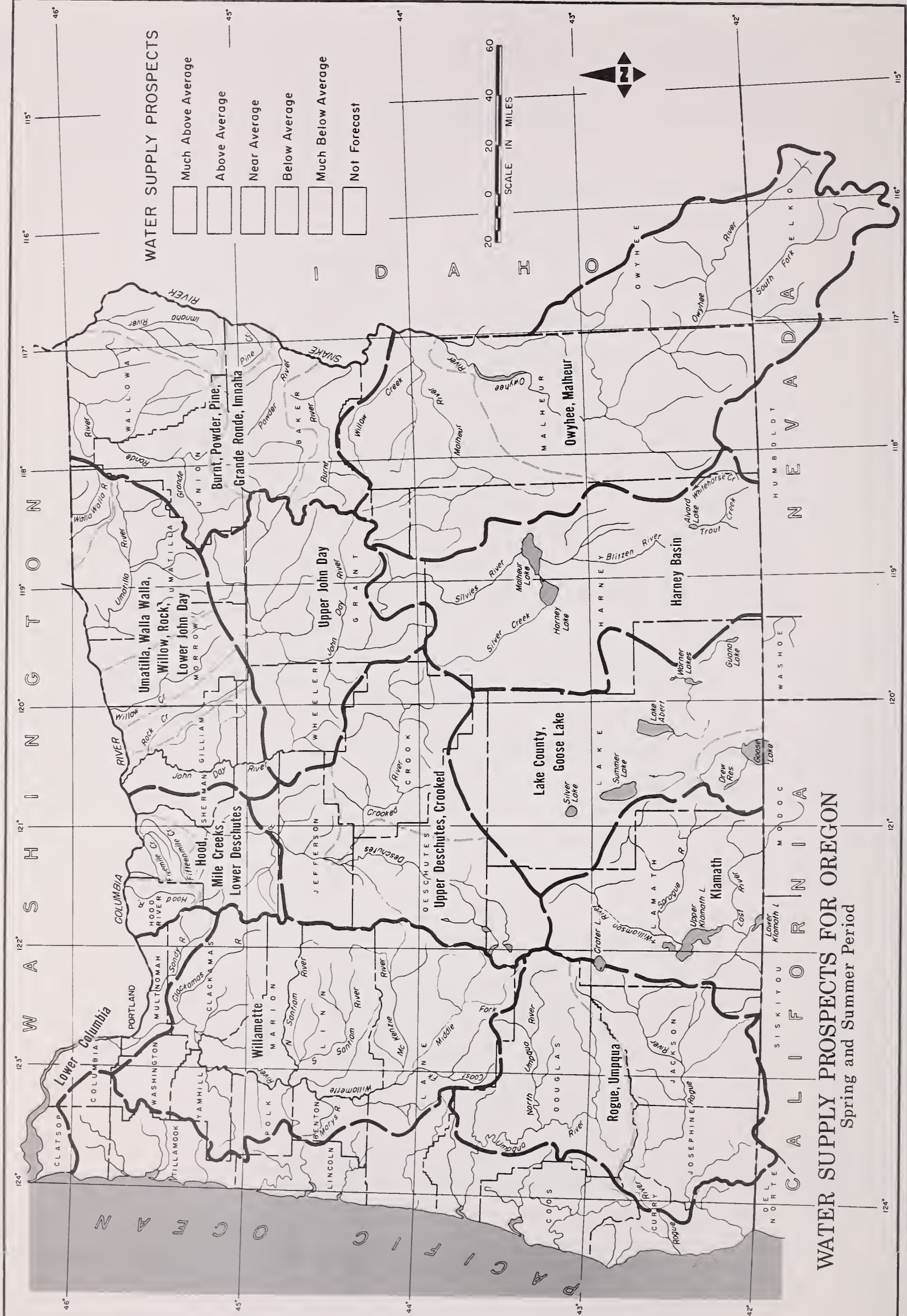


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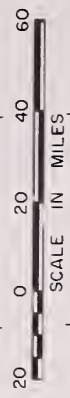






WATER SUPPLY PROSPECTS

- Much Above Average
- Above Average
- Near Average
- Below Average
- Much Below Average
- Not Forecast



WATER SUPPLY PROSPECTS FOR OREGON  
Spring and Summer Period



# WATER SUPPLY OUTLOOK for OREGON

JANUARY 1, 1975

Near normal conditions of water supply is expected in most of Oregon next spring and summer. The snowpack is nearly average in most locations except for the northern Cascades. Reservoir storage for January 1 is excellent.

## SNOW COVER

Early season measurements in Oregon indicate the mountain snowpack is 90% to 110% of average except around Mt. Hood and on the Clackamas River where it is half of normal, and on the Powder River drainage where it is 70% of average. It is interesting to note that for the past 2 years the snowpack at Mt. Hood was record or near record.

## PRECIPITATION

Precipitation during the September & October period was only 1/4 of the normal amount for this period and remained below normal throughout most of the state during November and December.

## SOIL MOISTURE

As a result of the low precipitation received around the state, watershed soils are very dry and will detract from the coming snowmelt runoff.

## RESERVOIR STORAGE

Twentyfour major irrigation reservoirs in Oregon are storing about 1,900,000 acre feet of water. This is 20% above average. Almost all are storing above normal amounts for January 1.

continued on next page -

## STREAMFLOW

Streamflow for the water year to date (Oct-Dec.) has generally been much below average due to the low fall precipitation.

Representative streamflow for this period is as follows:

<u>STREAM</u>	<u>October-December Flow % Avg., 1958-72</u>
Owyhee Net Inflow	79
Chewaucan near Paisley	62
John Day at Service Creek	48
Willamette, Middle Fork below N. Fk.	86
Umpqua near Elkton	60
Rogue at Raygold	71
Klamath Lake net Inflow	93

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



# WATER SUPPLY OUTLOOK

## OWYHEE, MALHEUR WATERSHEDS

### OREGON

*as of*

JANUARY 1, 1975

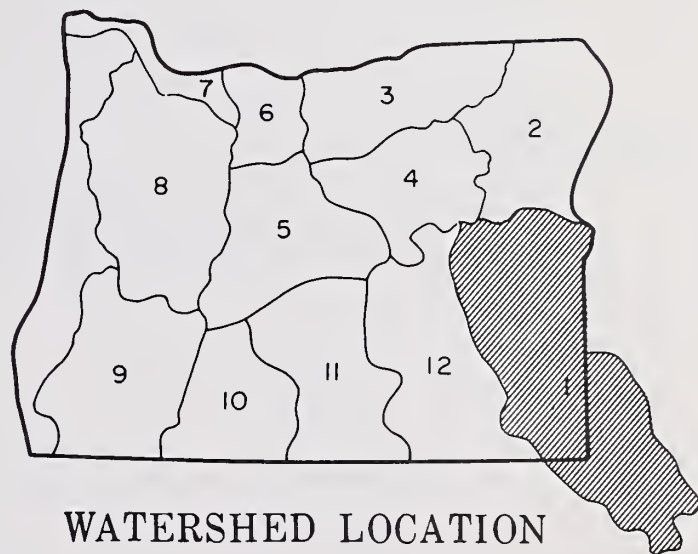
#### GENERAL OUTLOOK

THE GENERAL WATER SUPPLY OUTLOOK FOR THE OWYHÉE, MALHEUR WATERSHEDS IS AVERAGE TO ABOVE AVERAGE FOR THIS COMING SEASON'S USE. AS A RESULT OF LOW FALL PRECIPITATION, THE SOIL MOISTURE REMAINS BELOW AVERAGE, BUT THE SNOWPACK IS ABOVE AVERAGE AND RESERVOIR STORAGE RANGES FROM 112% OF NORMAL ON THE OWYHEE TO 157% ON THE MALHEUR WATERSHED.

#### WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warm Springs Irrig. Dist. Willow Creek (Reservoired)	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Bully Creek at Warm Springs Malheur near Drewsey					
Malheur, North Fork at Beulah					
Owyhee Reservoir net Inflow <sup>m</sup>					

Note: Forecasts begin on Feb. 1, 1975

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome		Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Antelope	70.0	1.8	2.8	6.2 <sup>m</sup>
Beulah Reservoir	60.0	21.6	18.8	17.8
Bully Creek	30.0	10.9	8.9	10.4
Owyhee	715.0	410.1	434.6	363.2
Warm Springs	191.0	115.3	29.7	65.6

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Malheur River	1	54	69
Owyhee River	3	80	73

## SUMMARY of SNOW MEASUREMENTS

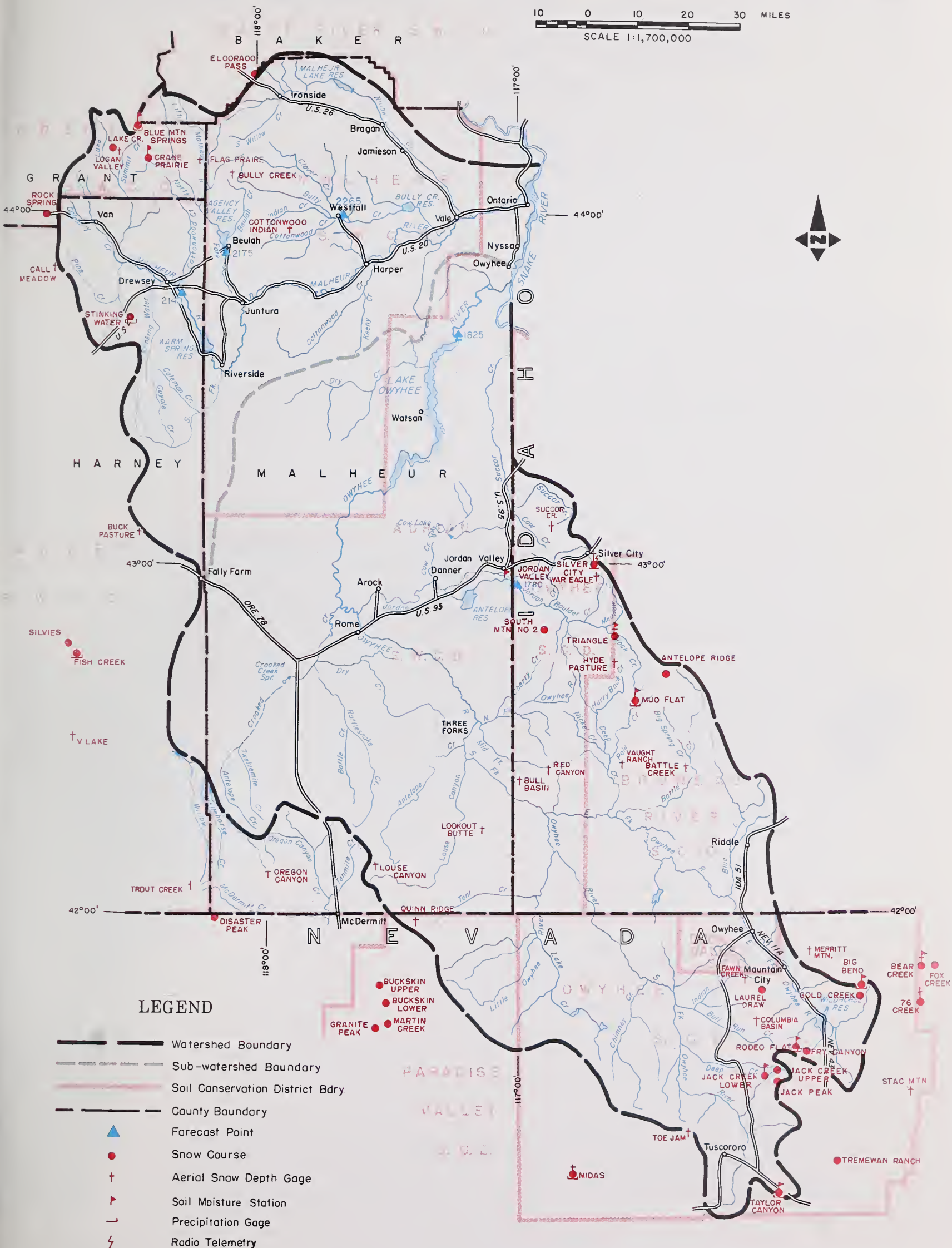
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Jordan Creek	2	43	107
Malheur River	4	52	107
Owyhee River	4	56	117

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.



# OWYHEE, MALHEUR WATERSHEDS





# WATER SUPPLY OUTLOOK

## BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

### OREGON

*as of*

JANUARY 1, 1975

#### GENERAL OUTLOOK

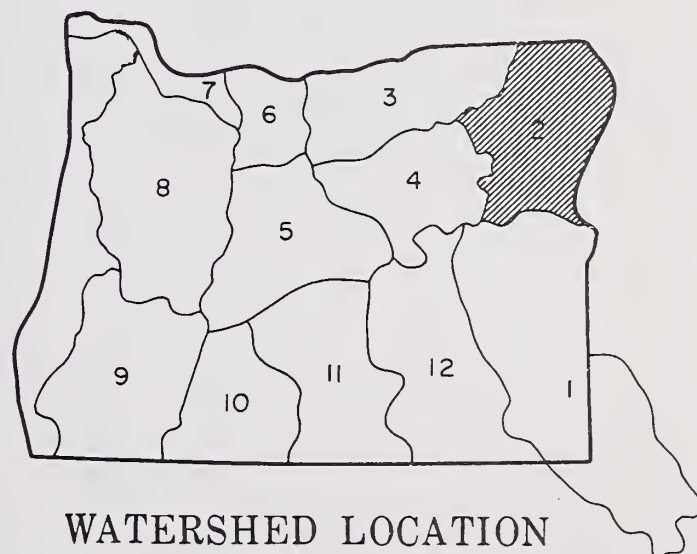
WATER SUPPLIES SHOULD BE NEAR AVERAGE IN THE GRANDE RONDE, POWDER AND BURNT RIVER BASINS FOR THE COMING GROWING SEASON. THE SNOW-PACK IS ABOVE NORMAL ON THE GRANDE RONDE AND RANGES ON DOWN TO BELOW AVERAGE ON THE POWDER. RESERVOIR STORAGE IS ABOVE AVERAGE IN THE PRINCIPAL IRRIGATION RESERVOIRS. PRECIPITATION HAS BEEN MUCH BELOW NORMAL SINCE SEPTEMBER. AS A RESULT, WATERSHED SOILS ARE DRY AND WILL DETRACT SOME FROM THE SNOW MELT RUNOFF.

#### WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope		
Baker Valley		
Big Creek		
Clover Cr. (nr. N. Powder)		
Cove		
Durkee		
Eagle Valley		
Elgin		
Enterprise-Joseph		
Hereford-Bridgeport		
Imnaha River		
LaGrande-Island City		
Lostine-Wallowa		
No. Powder River-Wolf Creek		
Pine Valley		
Powder River-Elk Creek		
Summerville		
Sumpter Valley		
Union-Hot Lake		
Unity		

Forecasts begin in  
the Feb. 1 report  
which will be is-  
sued about Feb. 8,  
1975



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average i
Bear near Wallowa Burnt near Hereford <sup>d</sup>  Catherine near Union Eagle Creek abv. Skull Creek  Grande Ronde at La Grande  Hurricane near Joseph Imnaha at Imnaha Lostine near Lostine Powder near Sumpter <sup>d</sup>  Wallowa, East Fork near Joseph <sup>d</sup>				

Note: Forecasts begin on Feb. 1, 1975

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Phillips Lake	73.5	51.2	19.9	- -
Thief Valley	17.4	17.4	17.4	14.4 <sup>m</sup>
Unity	25.2	10.9	10.2	7.7
Wallowa Lake	37.5	24.4	10.3	19.9

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Burnt River	3	42	104
Grande Ronde River above La Grande	3	72	142
Powder River	2	38	72
Wallowa, Imnaha, Catherine Creek	c		

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Burnt, Powder Grande Ronde, Catherine Creek, Imnaha River	6 2	82	92

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

10 0 10 20 30 MILES  
SCALE 1:1,350,000



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ↑ Aerial Snow Depth Gage
- † Soil Moisture Station
- ⌈ Precipitation Gage



## WATER SUPPLY OUTLOOK

# UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

## OREGON

*as of*

JANUARY 1, 1975

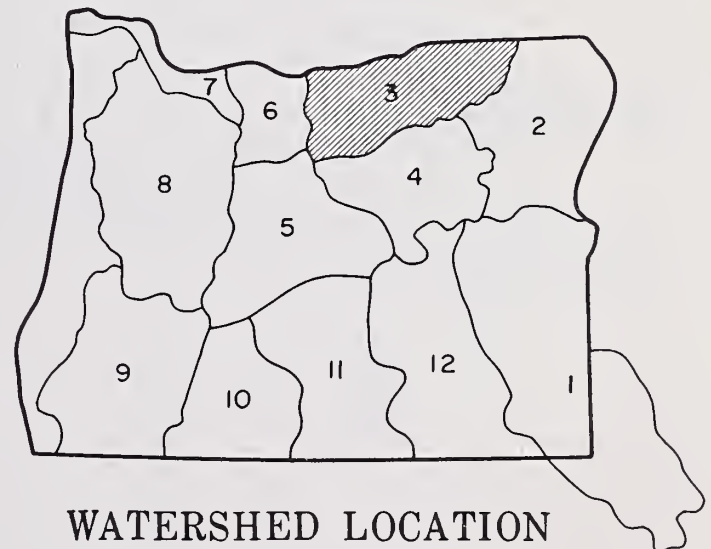
## GENERAL OUTLOOK

WATER SUPPLIES IN THE UMATILLA AND WALLA WALLA BASINS WILL BE NEAR AVERAGE FOR THE COMING GROWING SEASON. THE EARLY SEASON SNOW MEASUREMENTS INDICATE AN ABOVE AVERAGE SNOWPACK. PRECIPITATION HOWEVER, SINCE SEPTEMBER HAS BEEN MUCH BELOW AVERAGE. AS A RESULT WATERSHED SOILS ARE DRY AND WILL DETRACT FROM THE SNOW MELT RUN-OFF. STORAGE IN COLD SPRINGS AND MCKAY RESERVOIRS IS ABOUT 75% OF AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	
Walla Walla River, So. Fork		
Walla Walla River, Main		
Walla Walla River, Little		
Couse Creek		
Dry Creek		
Pine Creek		
Umatilla River, Main		
Wildhorse Creek		
Umatilla R. (Cold Springs Reservoir)		
Umatilla R. (McKay Res.)		
McKay Creek		
Birch Creek		
Butter Creek		
Willow Creek		
Rhea Creek		
Rock Creek (John Day Tributary)		



U.S.D.A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by

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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Birch Creek at Rieth					
Butter Creek near Pine City					
McKay near Pilot Rock					
Umatilla near Gibbon					
Umatilla at Pendleton					
Walla Walla, South Fork near Milton					

Note: Forecasts begin on Feb. 1, 1975

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton		Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cold Springs	50.0	14.5	24.1	21.6
McKay	73.8	15.0	35.8	18.3

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Umatilla, Walla Walla, McKay Creek	3	88	88

## SUMMARY of SNOW MEASUREMENTS

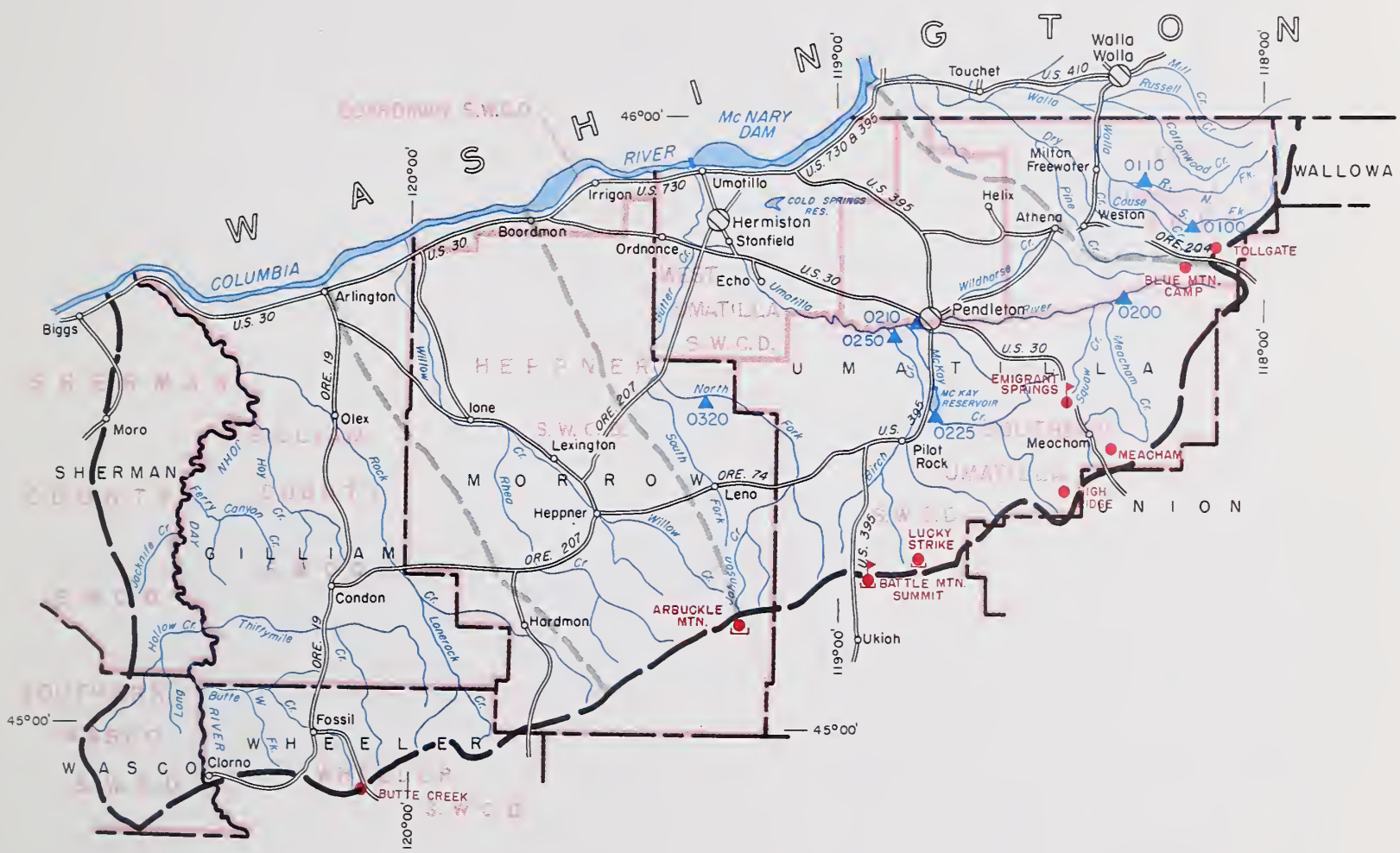
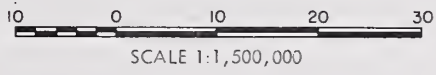
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
McKay Creek	2	37	114
Umatilla River	3	38	112
Walla Walla River	2	38	117

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Precipitation Gage





WATER SUPPLY OUTLOOK  
UPPER JOHN DAY WATERSHEDS  
OREGON

as of  
JANUARY 1, 1975

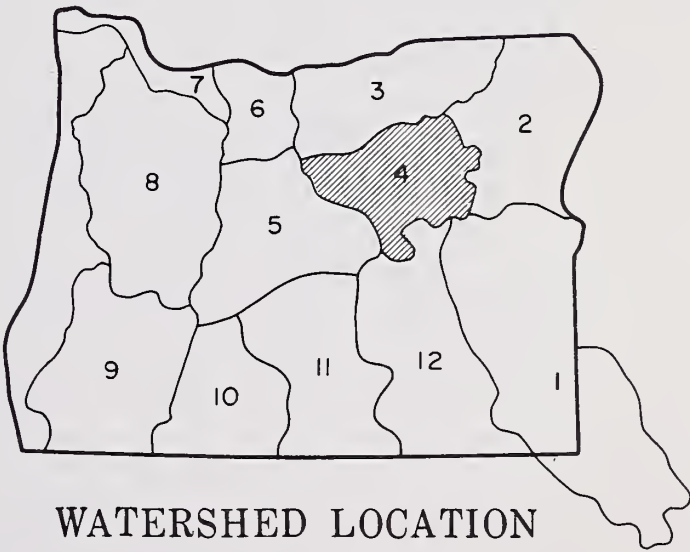
GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR THE UPPER JOHN DAY BASIN FOR THE COMING GROWING SEASON. EARLY SEASON SNOW SURVEYS INDICATE AN AVERAGE SNOWPACK. PRECIPITATION SINCE SEPTEMBER HOWEVER HAS BEEN MUCH BELOW NORMAL. AS A RESULT, THE WATERSHED SOIL MOISTURE IS BELOW NORMAL AND WILL DETRACT FROM THE SNOWMELT RUNOFF.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, S. Fork Monument-Kimberly Strawberry Creek	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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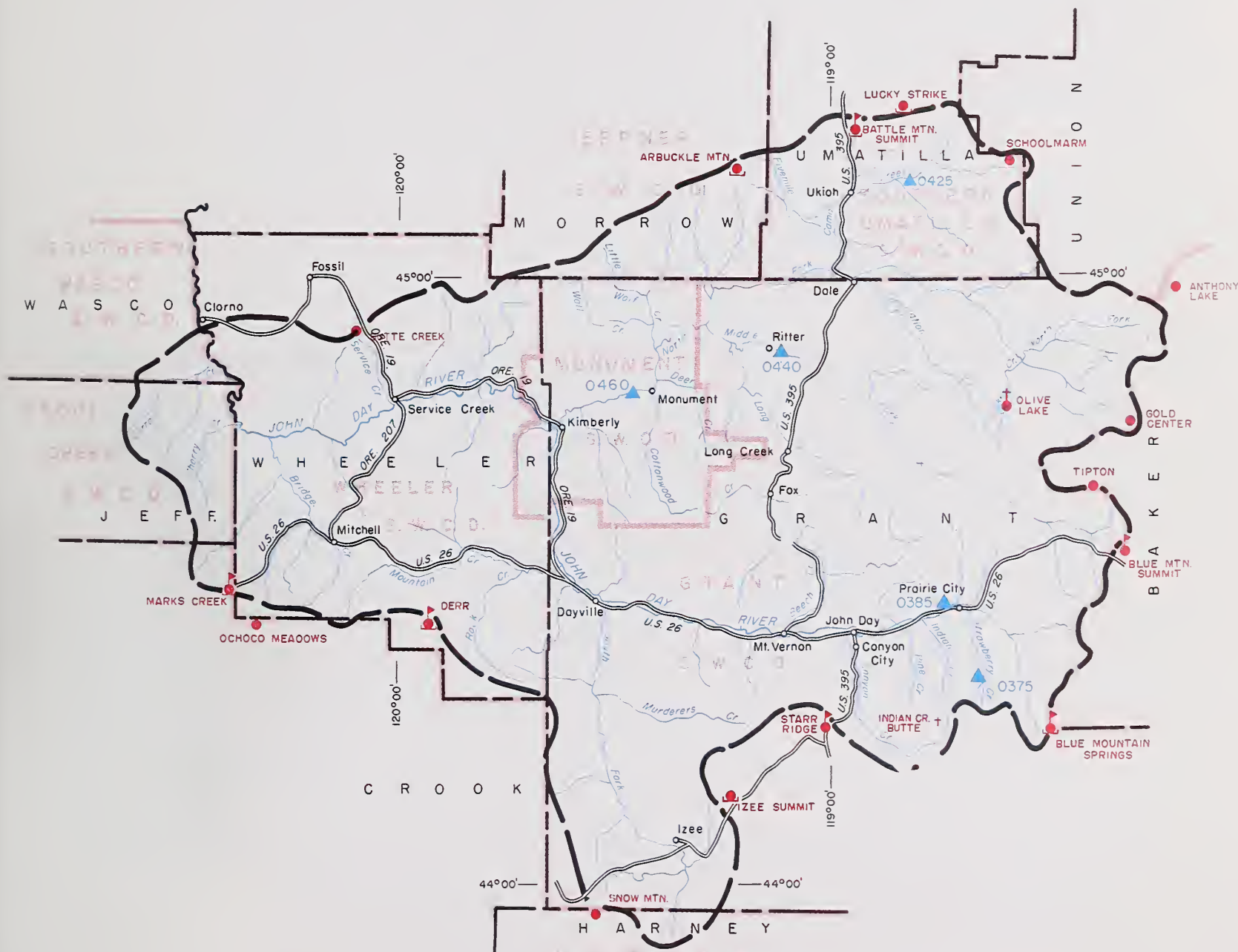
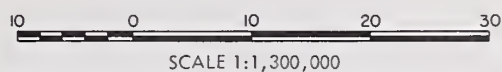
STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Camas Creek near Ukiah					
John Day, Middle Fork at Ritter					
John Day, North Fork at Monument					
Strawberry near Prairie City					

[illegible][illegible]

R-4b



# UPPER JOHN DAY WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ▶ Soil Moisture Station
- † Aerial Snow Depth Gage
- ┌ Precipitation Gage
- ⚡ Radio Telemetry



WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

as of

JANUARY 1, 1975

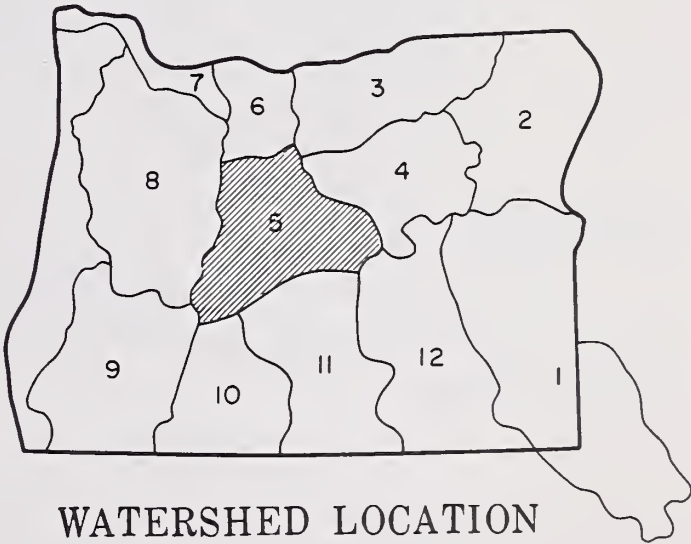
GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR CROOK, DESCHUTES AND JEFFERSON COUNTIES FOR THE COMING GROWING SEASON. EARLY SEASON SNOW SURVEYS INDICATE A NEAR AVERAGE SNOWPACK. THE FIVE PRINCIPAL DESCHUTES RESERVOIRS ARE STORING MORE THAN NORMAL AMOUNTS OF WATER FOR THIS TIME OF YEAR. PRECIPITATION HAS BEEN MUCH BELOW AVERAGE SINCE SEPTEMBER AND AS A RESULT, WATERSHED SOILS ARE DRY. ALL OF THESE CONDITIONS COMBINE TO INDICATE A NEAR AVERAGE WATER SUPPLY.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist. Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist.	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year      Average <sup>i</sup>
Beaver Creek near Paulina				
Crane Prairie Reservoir total Inflow				
Crescent at Crescent Lake <sup>d</sup>				
Crooked near Post <sup>d</sup>				
Deschutes at Benham Falls <sup>d</sup>				
Deschutes below Snow Creek				
Deschutes, Little near La Pine <sup>d</sup>				
Ochoco Reservoir net Inflow <sup>d</sup>				
Odell near Crescent				
Squaw near Sisters				
Tumalo near Bend <sup>d</sup>				

Note: Forecasts begin on Feb. 1, 1975

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow			
Crooked R. near Post			
Deschutes at Bend			
Little Deschutes near La Pine			
*Issued on April 1.			

Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Crane Prairie	55.3	55.6	31.3	38.1
Crescent Lake	86.9	81.5	68.2	42.2
Ochoco	47.5	20.3	18.0	17.5
Prineville	153.0	93.1	91.5	98.5 <sup>m</sup>
Wickiup	200.0	193.1	101.5	121.2

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Crooked R., Upper Deschutes River	1	61	80

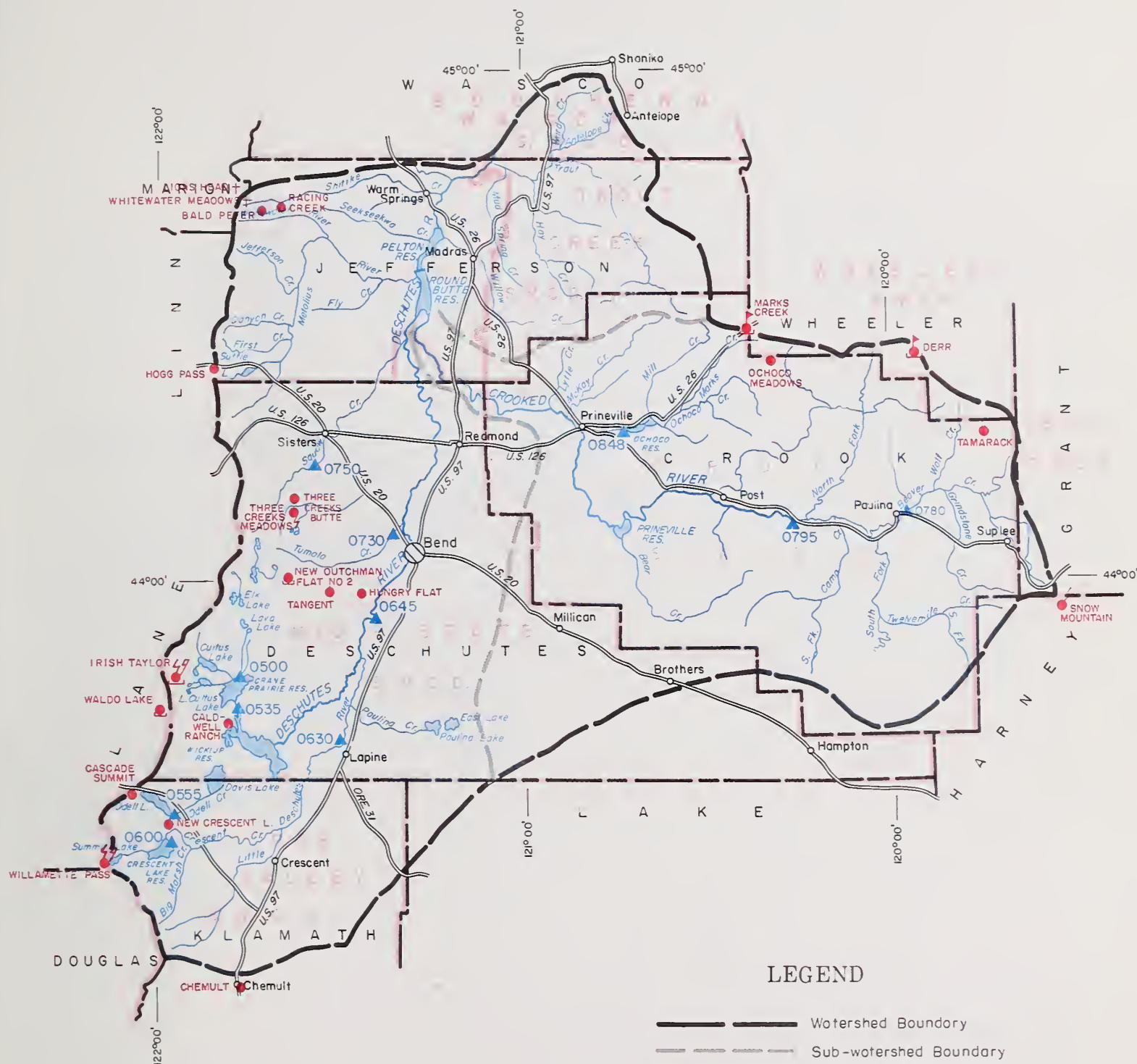
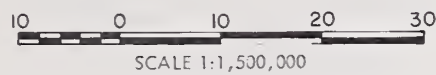
## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Crooked, Ochoco	1	83	105
Deschutes abv. Wickiup	1	50	113
Little Deschutes	2	48	89
Tumalo & Squaw Crs.	2	51	115

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# UPPER DESCHUTES, CROOKED WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⬮ Soil Moisture Station
- ⌊ Precipitation Gage
- ⚡ Radio Telemetry
- 9 Temperature Gage
- † Aerial Marker



WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES

WATERSHEDS

OREGON

as of

JANUARY 1, 1975

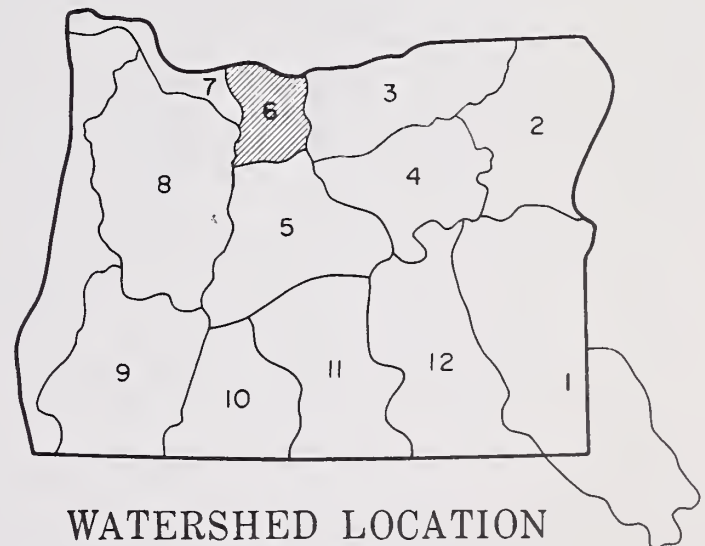
GENERAL OUTLOOK

BELOW AVERAGE WATER SUPPLIES ARE FORECAST FOR HOOD RIVER AND WASCO COUNTIES FOR THE COMING GROWING SEASON. JANUARY 1 SNOW MEASUREMENTS INDICATE A SNOWPACK ONE HALF OF NORMAL. PRECIPITATION SINCE SEPTEMBER HAS BEEN MUCH BELOW NORMAL. AS A RESULT WATERSHED SOILS ARE DRY AND WILL DETRACT FROM THE SNOW MELT RUNOFF.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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Report prepared by  
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PORTLAND, OREGON 97205



STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
BASIN, STREAM and/or FORECAST POINT					
Hood River near Tucker Bridge					
Hood, West Fork near Dee					
White below Tygh Valley					

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
<p>Clear Branch Inflow</p> <p>*Average cfs forecast to flow for this two-week period.</p> <p>**Average cfs for period of record.</p>	<p>Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975</p>		




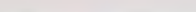







RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Clear Lake (Wasco)	11.9	7.9	1.0	1.5

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Hood River	3	22	51
Mile Creeks	c		
White River	2	22	57

R - 6b

SCALE 1:1,000,000



- |   |                                 |
|---|---------------------------------|
|  | Watershed Boundary              |
|  | Sub-watershed Boundary          |
|  | Soil Conservation District Bdry |
|  | County Boundary                 |
|  | Forecast Point                  |
|  | Snow Course                     |
|  | Soil Moisture Station           |
|  | Aerial Snow Depth Gage          |
|  | Precipitation Gage              |
|  | Temperature Gage                |
|  | Radio Telemetry                 |





# WATER SUPPLY OUTLOOK

## LOWER COLUMBIA WATERSHEDS

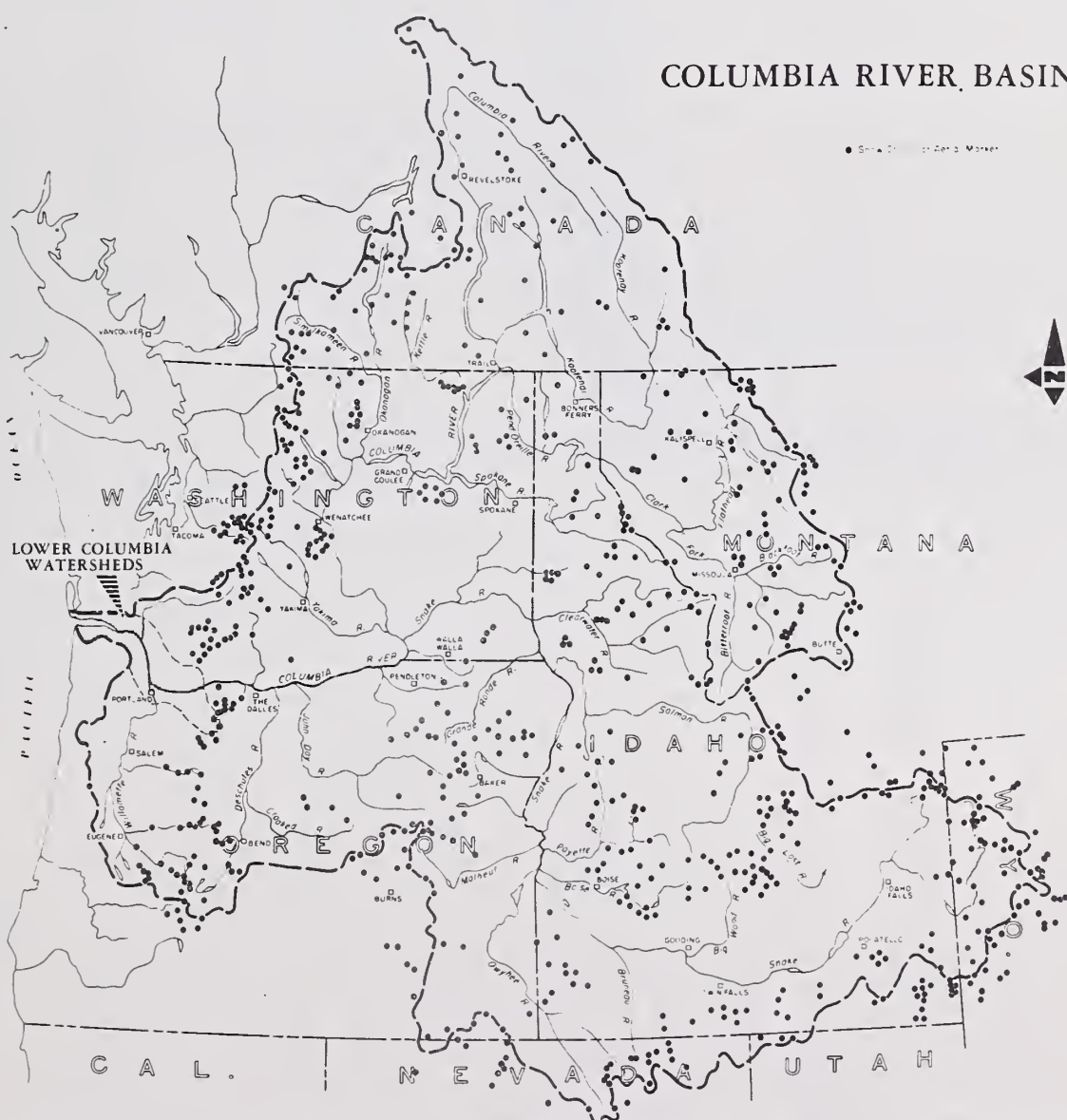
### OREGON

*as of*

JANUARY 1, 1975

#### GENERAL OUTLOOK

EARLY SEASON SNOW SURVEYS INDICATE THAT THE NEW YEAR HAS BEGUN WITH AN AVERAGE TO BELOW AVERAGE SNOWPACK ON MOST WATERSHEDS IN THE COLUMBIA BASIN. AT NEAR ONE HALF OF AVERAGE, SNOW COVER IS POOREST ON WATERSHEDS NEAR MT. HOOD IN OREGON. SNOW ON THE GRANDE RONDE IN NORTHEAST OREGON IS HIGHEST AT 140%. MOST OTHER DRAINAGES INCLUDING THOSE IN CANADA VARY FROM 75% UP TO 110% OF AVERAGE. PRECIPITATION SINCE SEPTEMBER HAS BEEN POOR IN MOST LOCATIONS AND AS A RESULT WATERSHED SOILS ARE DRY AND WILL DETRACT SOMEWHAT FROM THE SNOWMELT RUNOFF.



U.S.D.A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Sandy River	1	26	68

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average <sup>i</sup>
Columbia at The Dalles <sup>d</sup> Sandy River near Marmot				
Note: Forecasts begin on Feb. 1, 1975				

## HISTORICAL DATA (Columbia River at The Dalles)

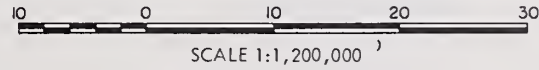
YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			REGULATED PEAK (1,000 cfs)	DATE
	APR - SEPT.	APR - JUNE	MAY - JUNE		
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 cfs)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

# LOWER COLUMBIA WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- River Miles
- Snow Course
- Temperature
- Radio Telemetry
- Forecast Point



WATER SUPPLY OUTLOOK  
WILLAMETTE WATERSHEDS  
OREGON

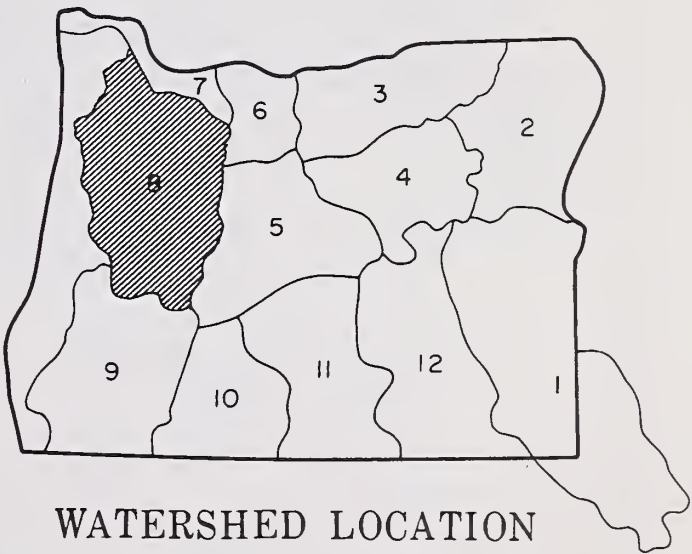
as of  
JANUARY 1, 1975

GENERAL OUTLOOK

WATER SUPPLIES IN THE WILLAMETTE VALLEY WILL BE NEAR AVERAGE EXCEPT FOR THOSE STREAMS ORIGINATING NEAR MT. HOOD. THE SNOWPACK IS ABOUT AVERAGE WITH THE EXCEPTION OF AREAS NEAR MT. HOOD WHICH ARE 1/2 OF NORMAL FOR JANUARY 1. THE WILLAMETTE RESERVOIRS WHICH ARE PRINCIPALLY FOR FLOOD CONTROL PURPOSES DO GENERALLY CONTAIN ABOVE AVERAGE AMOUNTS OF WATER WHICH COULD BE AVAILABLE FOR IRRIGATION THIS NEXT SUMMER. PRECIPITATION SINCE SEPTEMBER HAS BEEN 85% OF AVERAGE.

WATER SUPPLY OUTLOOK      Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>1</sup>
Clackamas at Estacada					
Clackamas above Three Lynx					
McKenzie at McKenzie Bridge <sup>d</sup>					
McKenzie near Vida <sup>d</sup>					
McKenzie, So. Fork near Rainbow <sup>d</sup>					
Oak Grove Fork above Power Intake					
Row near Dorena					
Santiam, North at Mehama <sup>d</sup>					
Santiam, South at Waterloo <sup>d</sup>					
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge <sup>d</sup>					
Willamette, No. Fk. of Mid. Fk. near Oakridge					
Willamette at Salem <sup>d</sup>					

Note: Forecasts begin on Feb. 1, 1975

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED.	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>1</sup>
Clackamas River	2	17	45
McKenzie River	3	62	112
Row River	2	35	75
Santiam River	4	41	89
Willamette, Mid. Fk.	3	48	88

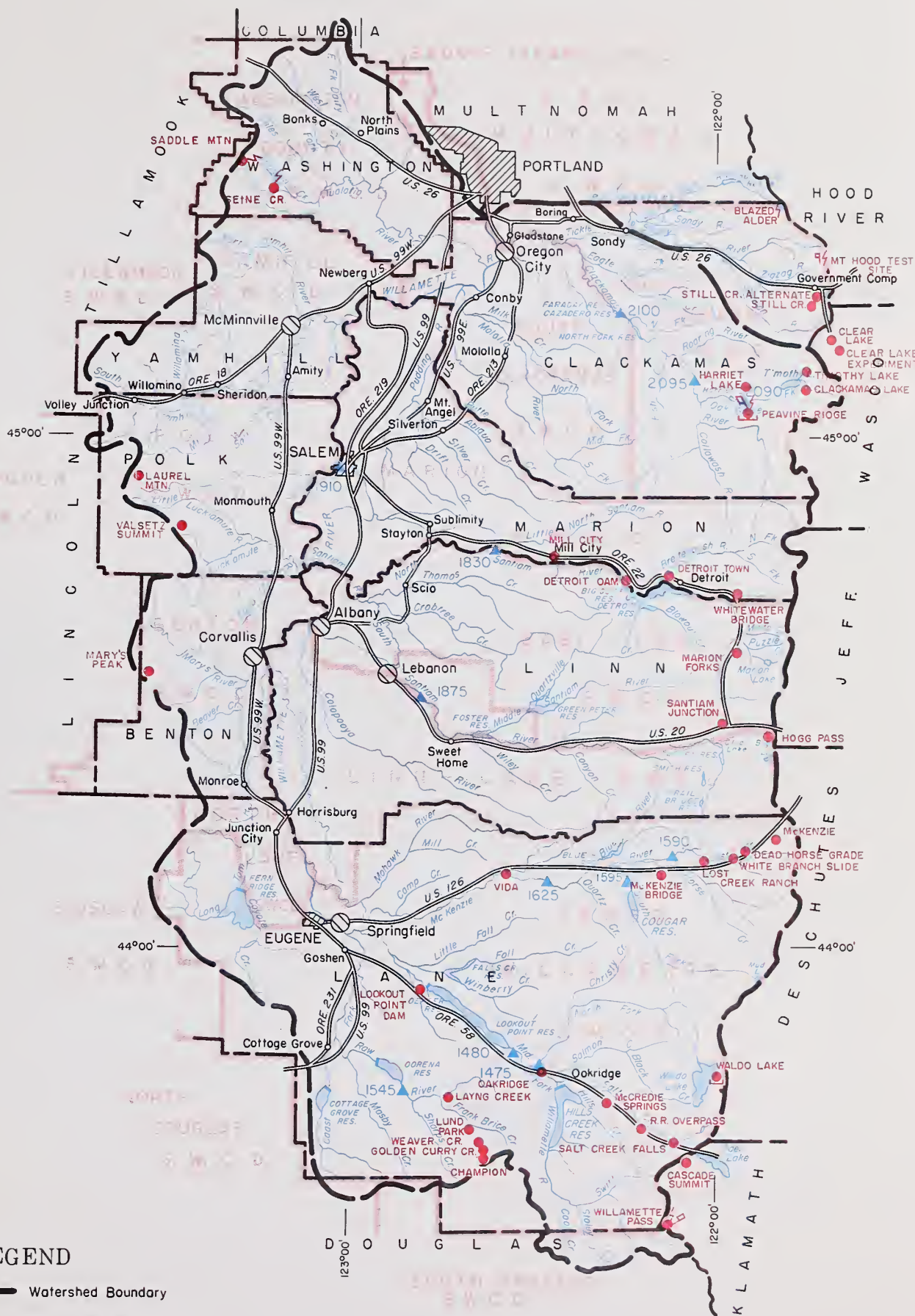
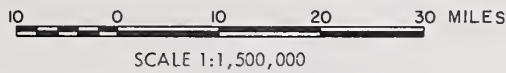
## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>1</sup>
Blue River	85.6*	0	6.2	- -
Cottage Grove	30.0*	0	0.0	1.4
Cougar	155.2*	9.0	18.7	14.4 <sup>m</sup>
Detroit	299.9*	55.1	110.4	25.3
Dorena	70.5	1.3	4.9	6.7
Fall Creek	115.0*	0	0.0	0.0 <sup>m</sup>
Fern Ridge	94.2*	1.0	0.0	10.4
Foster	30.0*	0	0.1	1.1 <sup>m</sup>
Green Peter	270.0*	37.6	94.9	6.6 <sup>m</sup>
Hills Creek	200.0	9.5	28.6	15.9 <sup>m</sup>
Lookout Point	337.2*	8.6	78.5	34.4
Timothy Lake	61.7	48.8	61.7	49.1

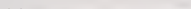








\*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WILLAMETTE WATERSHEDS



### LEGEND

- |   |                                  |
|---|----------------------------------|
|  | Watershed Boundary               |
|  | Sub-watershed Boundary           |
|  | Soil Conservation District Bdry. |
|  | County Boundary                  |
|  | Forecast Point                   |
|  | Snow Course                      |
|  | Radio Telemetry                  |
|  | Precipitation Gage               |
|  | Temperature Gage                 |





# WATER SUPPLY OUTLOOK

## ROGUE, UMPQUA, WATERSHEDS

### OREGON

*as of*

JANUARY 1, 1975

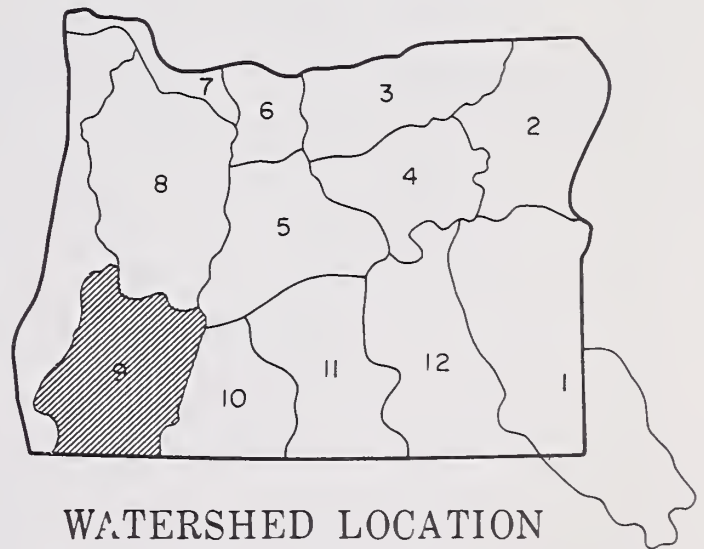
#### GENERAL OUTLOOK

MOST WATER USERS IN THE ROGUE AND UMPQUA BASINS WILL HAVE AVERAGE WATER SUPPLIES FOR THE COMING GROWING SEASON. EARLY SEASON SNOW MEASUREMENTS INDICATE A NEAR AVERAGE SNOWPACK, AND RESERVOIR STORAGE FOR JANUARY 1 IS GOOD. VALLEY PRECIPITATION SINCE SEPTEMBER HAS BEEN BELOW AVERAGE.

#### WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. res.) Evans Creek Gold Hill Irrigation Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek	Forecasts begin in the Feb. 1 report which will be is- sued about Feb. 8, 1975	



U.S.D.A. SOIL CONSERVATION SERVICE  
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PORTLAND, OREGON 97205



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
Applegate near Copper Clearwater above Trap Creek <sup>d</sup> Fourmile Lake net Inflow <sup>d</sup> Hyatt Reservoir net Inflow <sup>d</sup> Illinois River near Kerby  Little Butte, N. Fk. at Fish Lake nr. Lake Cr. <sup>d</sup> Little Butte, S. Fk. near Lake Creek Rogue above Prospect  Rogue, South Fork near Prospect <sup>d</sup>  Rogue at Raygold near Central Point  Rogue at Grants Pass Umpqua, No. blw. Lemolo Res. nr. Toketee Falls <sup>d</sup>				
Note: Forecasts begin on Feb. 1, 1975				

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork Rogue at Raygold		Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	
*Average daily cfs forecast to flow on this date.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Emigrant Lake	39.0	14.7	20.8	18.0
Fish Lake	8.0	7.5	4.2	5.0
Fourmile Lake	16.1	10.0	5.8	7.7
Howard Prairie	60.0	41.2	42.7	35.3 <sup>m</sup>
Hyatt Prairie	16.1	10.3	10.8	9.8
*Average for years of record (in base period) after reconstruction.				

## SUMMARY of SNOW MEASUREMENTS

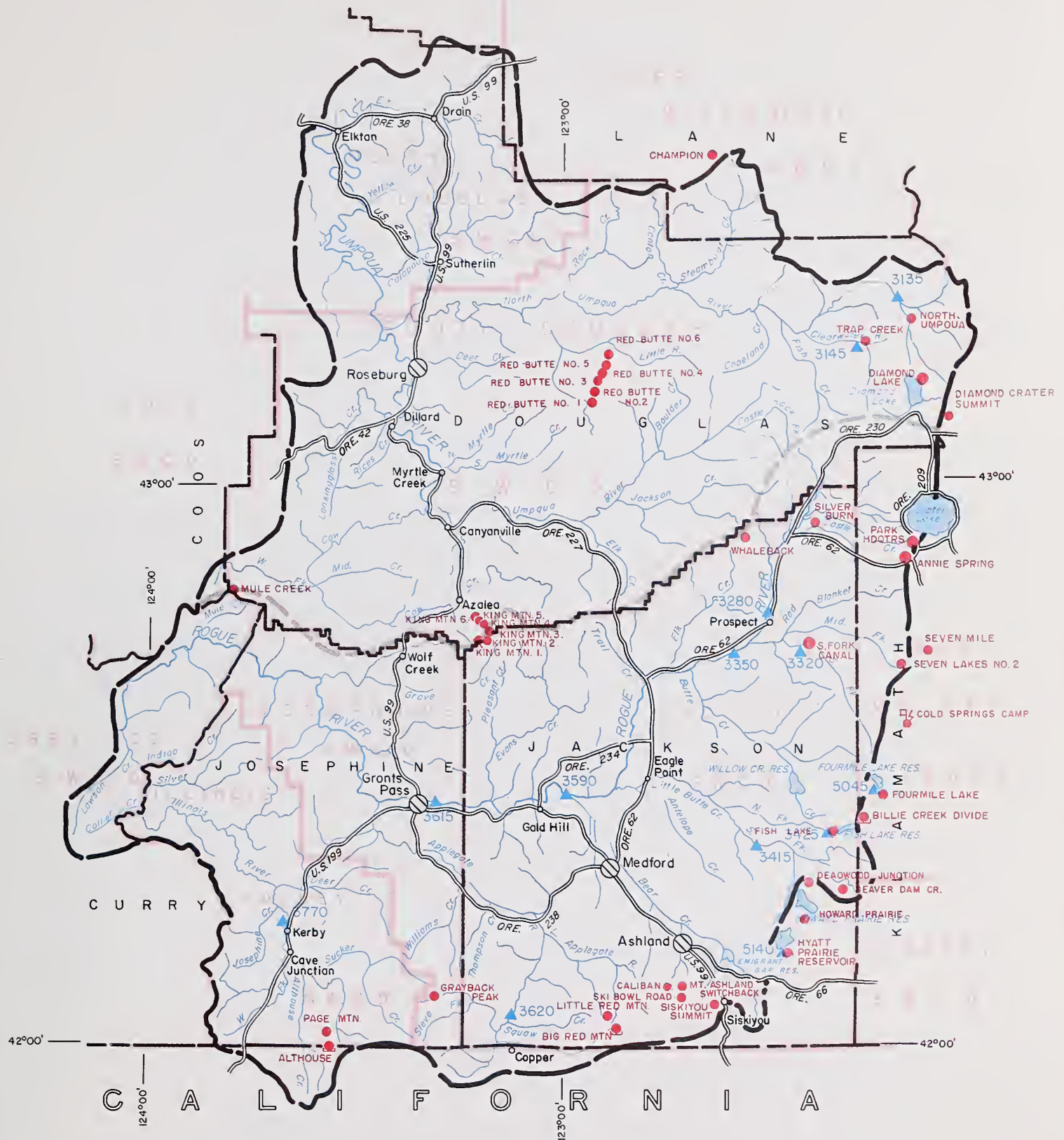
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Applegate	c		
Bear Creek	1	192	62
Butte Creek	4	56	90
Illinois River	c		
North Umpqua	3	54	113
Rogue River	3	60	106

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# ROGUE, UMPQUA WATERSHEDS

10 0 10 20 30  
SCALE 1:1,300,000



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Precipitation Gage
- Radio Telemetry
- Temperature Gage



WATER SUPPLY OUTLOOK  
KLAMATH WATERSHEDS  
OREGON  
*as of*

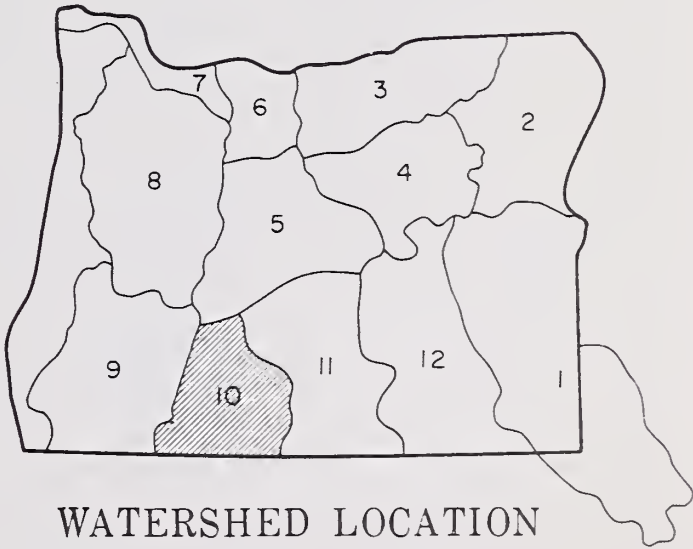
JANUARY 1, 1975

GENERAL OUTLOOK

MOST KLAMATH COUNTY WATER USERS WILL HAVE AVERAGE WATER SUPPLIES FOR THE COMING GROWING SEASON. SOME IRRIGATORS WHO DEPEND UPON DIRECT DIVERSIONS WILL HAVE SOME WATER SHORTAGE.. THIS OUTLOOK IS BASED ON A AVERAGE TO BELOW AVERAGE SNOWPACK AND GOOD RESERVOIR STORAGE. PRECIPITATION SINCE SEPTEMBER HAS BEEN MUCH BELOW AVERAGE. AS A RESULT, WATERSHED SOILS ARE DRY AND WILL DETRACT FROM THE COMING SNOW MELT RUNOFF.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clear Lake Reservoir Inflow <sup>k</sup> Gerber Reservoir Inflow <sup>k</sup> Sprague near Chiloquin  Upper Klamath Lake net Inflow <sup>k</sup>  Williamson below Sprague River					

Note: Forecasts begin on Feb. 1, 1975

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Upper Klamath	1	80	69

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

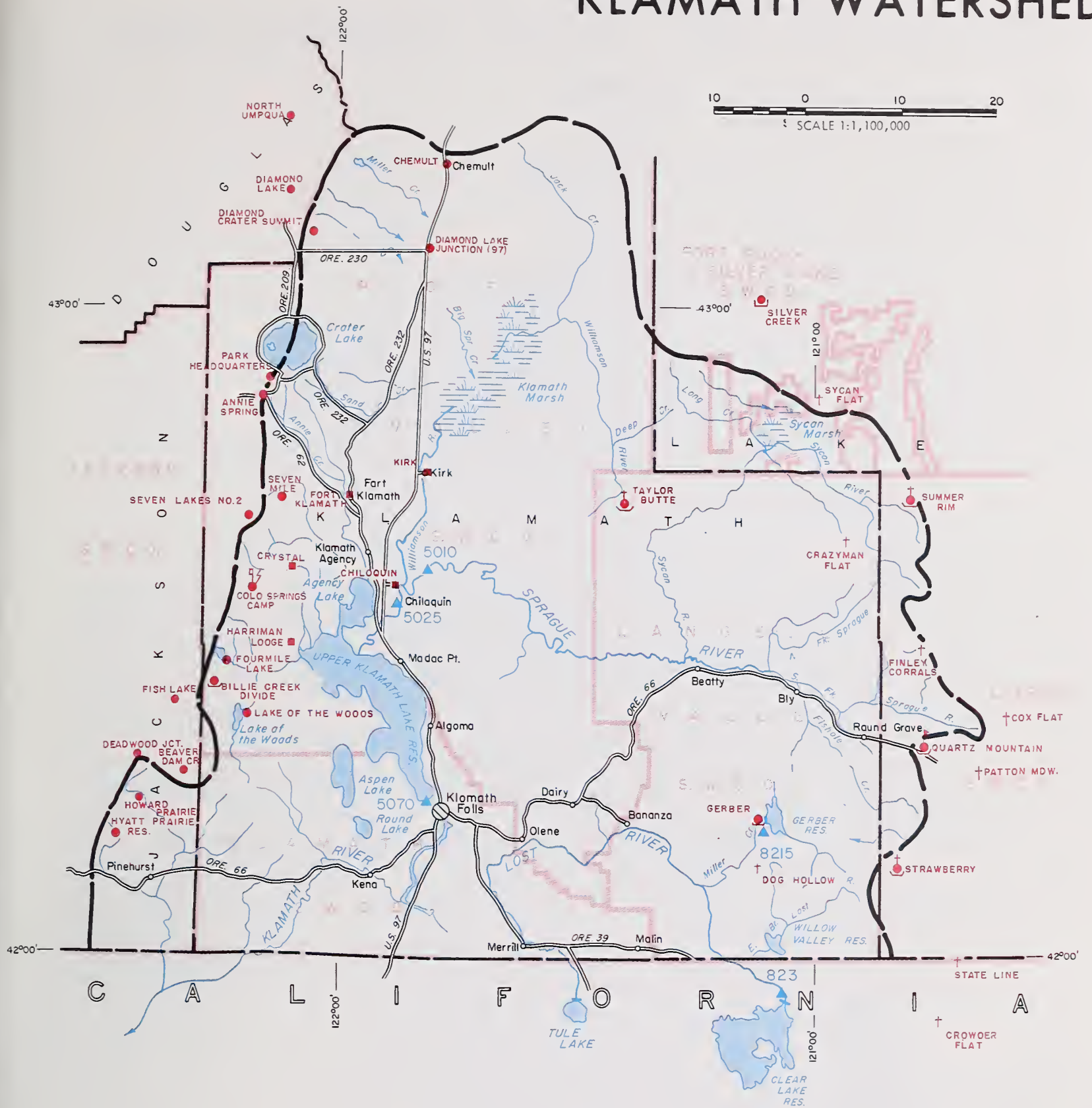
RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Clear Lake	440.2	274.1	257.1	188.4
Gerber	94.0	43.8	42.3	37.9
Upper Klamath Lake	584.0	324.2	428.2	341.3

SUMMARY of SNOW MEASUREMENTS  
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Lost River	1	270	246
Sprague River	2	93	84
Upper Klamath	6	62	99
Williamson River	3	44	85

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# KLAMATH WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- PP&L Snow Station
- ▲ Soil Moisture Station
- └─┐ Precipitation Gage
- ⚡ Radio Telemetry
- 9 Temperature Gage



WATER SUPPLY OUTLOOK  
LAKE COUNTY, GOOSE LAKE WATERSHEDS  
OREGON

as of

JANUARY 1, 1975

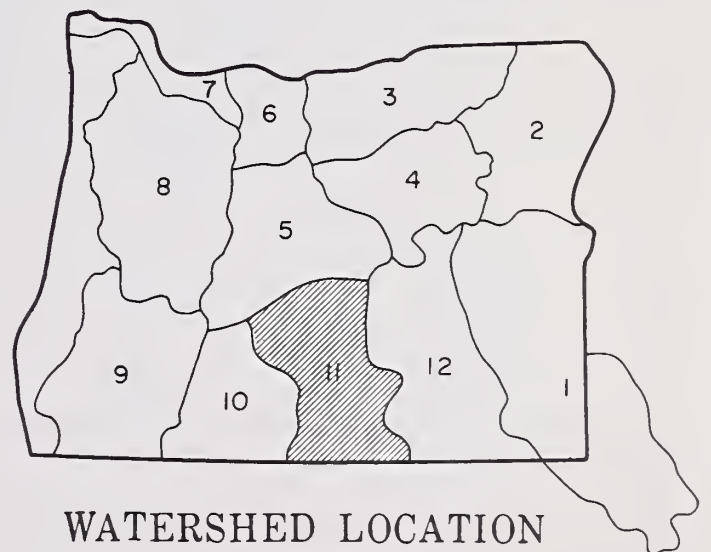
GENERAL OUTLOOK

EARLY SEASON SNOW SURVEYS INDICATE BELOW AVERAGE TO AVERAGE WATER SUPPLIES FOR LAKE COUNTY. ONLY THE DREWS CREEK WATERSHED HAD ABOVE NORMAL SNOW. PRECIPITATION SINCE SEPTEMBER HAS BEEN MUCH BELOW NORMAL. AS A RESULT, WATERSHED SOILS ARE DRY AND WILL DETRACT FROM THE SNOW MELT RUNOFF. DREWS RESERVOIR HOWEVER, DOES CONTAIN NEAR AVERAGE AMOUNTS OF WATER FOR JANUARY 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek (Hart Mountain) Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



U.S.D.A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by  
T.A. GEORGE and J.W. HAGLUND  
SOIL CONSERVATION SERVICE  
1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year      Average i
Chewaucan near Paisley Deep above Adel Drews Reservoir net Inflow <sup>d</sup> Honey Creek near Plush Silver Creek near Silver Lake <sup>d</sup> Twentymile near Adel				Note: Forecasts begin on Feb. 1, 1975

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Chewaucan, Silver Creek, Drew Creek	1	80	69
Honey, Deep, 20-Mi. Cr.	1	84	91

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cottonwood	8.7	<sup>b</sup>	2.7	2.1*
Drews	63.0	29.1	34.8	29.8
*Average for years of record (in base period) after reconstruction.				

## SUMMARY of SNOW MEASUREMENTS

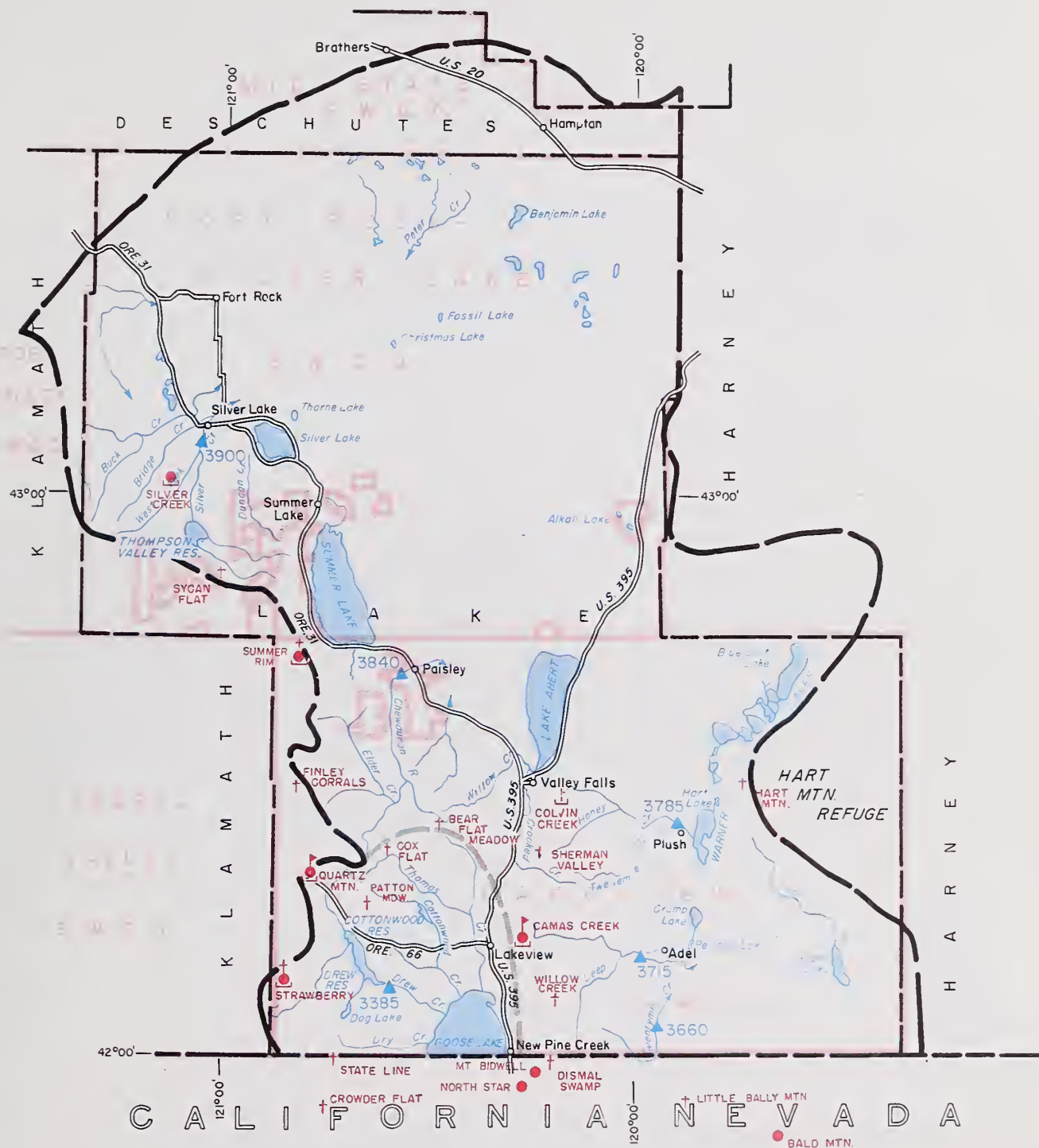
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Chewaucan River	2	93	84
Deep Creek	1	58	68
Drew Creek	1	182	119
Honey Creek	1	58	68
Silver Creek	2	50	45
Twentymile Creek	<sup>c</sup>		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# LAKE COUNTY, GOOSE LAKE WATERSHEDS

10 0 10 20 30  
SCALE 1:1,500,000



## LEGEND

● CEDAR PASS

● ADIN MTN.

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- PP&L Snow Station
- Soil Moisture Station
- └ Precipitation Gage





WATER SUPPLY OUTLOOK  
HARNEY BASIN WATERSHEDS  
OREGON  
*as of*

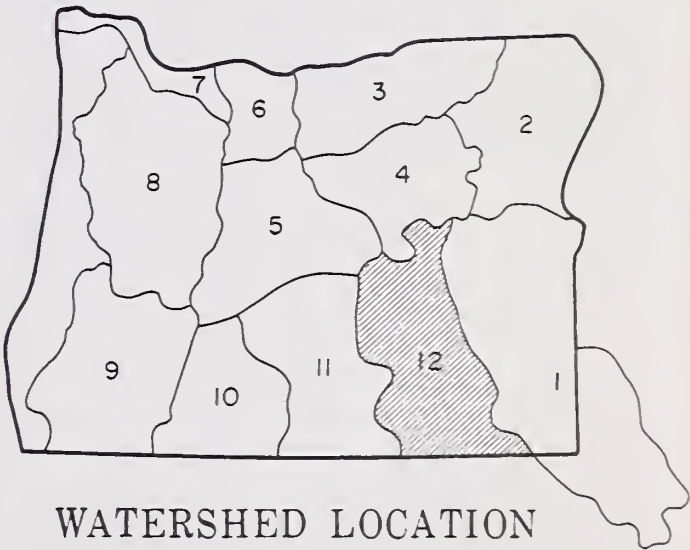
JANUARY 1, 1975

GENERAL OUTLOOK

HARNEY COUNTY WATER USERS SHOULD HAVE AVERAGE WATER SUPPLIES FOR THE COMING GROWING SEASON. THIS OUTLOOK IS BASED ON ABOVE AVERAGE EARLY SEASON SNOW MEASUREMENTS FROM A FEW SNOW COURSES. RAINFALL DURING THE FALL MONTHS WAS VERY LOW AND AS A RESULT, WATERSHED SOILS ARE DRY AND WILL DETRACT FROM FUTURE SNOW MELT RUNOFF.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1975	



U.S.D.A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

*Report prepared by*  
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SOIL CONSERVATION SERVICE  
1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Donner und Blitzen near Frenchglen					
Silver near Riley					
Silvies River near Burns					
Trout Creek near Denio					

Note: Forecasts begin on Feb. 1, 1975

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	1 c	74	88

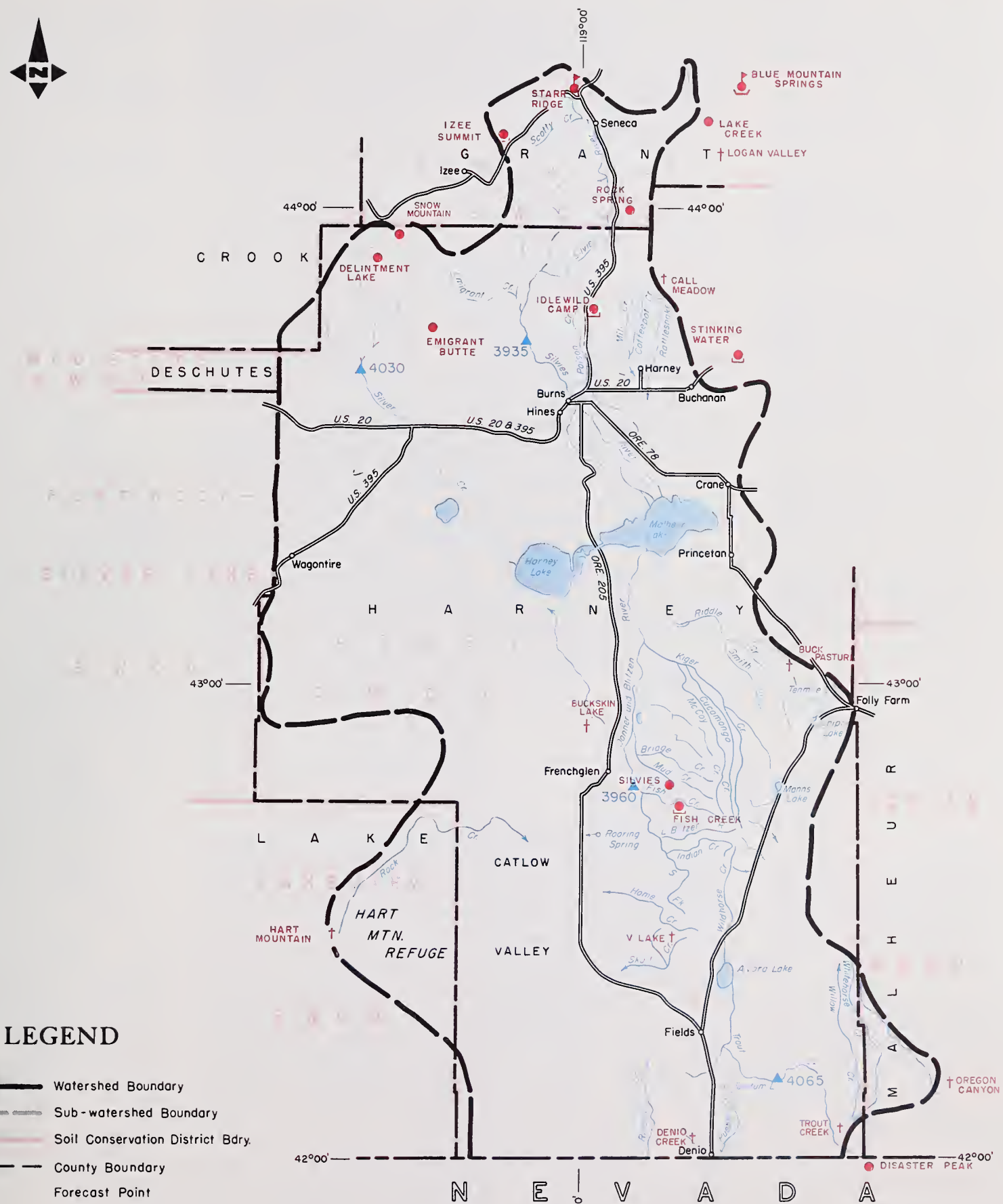
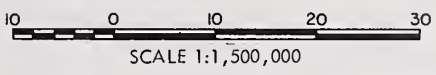
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Donner und Blitzen R.	1	70	136
Silver Creek	c		
Silvies River	4	52	110
Trout Creek	c		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# HARNEY BASIN WATERSHEDS



## LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Precipitation Gage





# BASIC DATA SUPPLEMENT 1

JANUARY 1, 1975

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	c			3.7	- -
Battle Creek <sup>e</sup> (Ida.)	c				
Bear Creek (Nev.)	12/29	38	10.4	9.2	7.8 <sup>h</sup>
Big Bend (Nev.)	c			5.9	3.0 <sup>h</sup>
Blue Mountain Springs	12/23	24	4.6	14.1	6.1
Blue Mtn. Springs Pillow*	12/23	-	3.8	7.7	- -
Buck Pasture <sup>e</sup>	c				
Buckskin, Lower (Nev.)	c				
Buckskin, Upper (Nev.)	c				
Bull Basin <sup>e</sup> (Ida.)	c				
Bully Creek <sup>e</sup>	c				
Call Meadow <sup>e</sup>	c				
Columbia Basin (Nev.)	c				
Cottonwood-Indian <sup>e</sup>	c				
Crane Prairie	c				
Disaster Peak (Nev.)	c				
Eldorado Pass	12/30	14	3.0	2.3	1.7
Fawn Creek <sup>e</sup> (Nev.)	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Flag Prairie <sup>e</sup>	c				
Fox Creek (Nev.)	c				
Fry Canyon (Nev.)	1/2	19	4.2	4.9	3.0
Gold Creek (Nev.)	1/2	11	2.0	3.9	1.9
Granite Peak (Nev.)	c				
Hyde Pasture <sup>e</sup> (Ida.)	c				
Jack Creek, Lower (Nev.)	c				
Jack Creek, Upper (Nev.)	c				
Jack Peak (Nev.)	c				
Lake Creek R.S.	12/23	23	4.2	7.7	3.8 <sup>h</sup>
Laurel Draw (Nev.)	c				
Logan Valley <sup>e</sup>	c				
Lookout Butte <sup>e</sup>	c				
Louse Canyon <sup>e</sup>	c				
Martin Creek (Nev.)	c				
Merritt Mountain <sup>e</sup> (Nev.)	c				
Midas <sup>e</sup> (Nev.)	c				
Mud Flat (Ida.)	c			3.6	- -
Oregon Canyon <sup>e</sup>	c				
Quinn Ridge <sup>e</sup> (Nev.)	c				
Red Canyon <sup>e</sup> (Ida.)	c				
Rock Spring	1/2	14	2.6	3.4	1.8
Rodeo Flat (Nev.)	1/2	20	4.0	4.8	2.6 <sup>h</sup>
76 Creek <sup>e</sup> (Nev.)	12/29	21	5.9	8.1	- -
Silver City (Ida.)	12/30	29	6.2	12.7	5.6 <sup>h</sup>
Silvies	c				
Silvies Pillow*	c				
South Mountain #2 (Ida.)	12/27	16	4.0	11.2	3.9 <sup>h</sup>
Stag Mountain <sup>e</sup> (Nev.)	c				
Stinking Water	12/31	9	1.9	2.7	1.4 <sup>h</sup>
Succor Creek (Ida.)	c				
Taylor Canyon (Nev.)	1/2	16	2.6	2.6	1.8 <sup>h</sup>
Toe Jam (Nev.)	c				
Tremewan Ranch (Nev.)	1/2	4	0.4	1.4	0.8
Trout Creek	c				
"V" Lake	c				
Vaught Ranch (Ida.)	c				
War Eagle (Ida.)	c				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	c				
Aneroid Lake #2	c				
Anthony Lake	12/23	50	10.0	20.1	11.0
Bald Mountain <sup>e</sup> (Ore.)	c				
Beaver Reservoir	b			11.3	5.4 <sup>h</sup>
Big Sheep <sup>e</sup>	c				
Blue Mtn. Summit	12/23	20	3.5	7.8	3.3
Bourne	c				
County Line	12/30	18	3.2	2.9	2.2
Dooley Mountain	12/30	21	3.4	4.8	3.8
Eilertson Meadows	12/23	17	2.7	9.0	4.7
Eldorado Pass	12/30	14	3.0	2.3	1.7
Gold Center	c				
Goodrich Lake	c			33.3	20.1 <sup>m</sup>
Intake House	12/27	25	3.8	10.4	5.5 <sup>h</sup>
Little Alps	12/31	25	4.6	10.2	5.5 <sup>h</sup>
Little Antone	12/23	15	2.3	6.3	4.1 <sup>m</sup>
Little Antone (Alternate)	12/31	23	4.0	7.0	- -
Lucky Strike	c				
Lucky Strike Pillow*	c				
Meacham	12/30	21	4.3	9.0	3.3
Mirror Lake <sup>e</sup>	c				
Moss Spring	c				8.9 <sup>h</sup>
Power Plant	12/27	20	3.2	3.7	3.0 <sup>h</sup>
Schneider Meadow	c				
Schoolmarm	12/30	16	3.0	2.6	1.9
Standley <sup>e</sup>	c				
Taylor Green	c				
Tipton	12/30	31	6.0	11.3	4.2
Tipton Snow Pillow*	12/30		6.0	12.5	- -
Tollgate	12/27	38	9.9	25.7	8.9
TV Ridge <sup>e</sup>	c				
UMATILLA, WALLA WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	c				
Arbuckle Mtn. Pillow*	c				
Battle Mountain Summit	12/30	8	1.4	1.6	1.3 <sup>h</sup>
Blue Mountain Camp	12/27	21	7.0	18.4	5.5 <sup>h</sup>
Butte Creek Summit	1/6	10	2.1	1.4	- -
Emigrant Springs	12/30	12	2.2	8.5	2.4
High Ridge Pillow	b			16.6	- -
Lucky Strike	c				
Lucky Strike Pillow*	c				
Meacham	12/30	21	4.3	9.0	3.3
Tollgate	12/27	38	9.9	25.7	8.9



# BASIC DATA SUPPLEMENT 1

JANUARY 1, 1975

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave.†

UPPER JOHN DAY WATERSHEDS					
Anthony Lake	12/23	50	10.0	20.1	11.0
Arbuckle Mountain	c				
Arbuckle Mtn. Pillow*	c				
Battle Mountain Summit	12/30	8	1.4	1.6	1.3 <sup>h</sup>
Blue Mountain Springs	12/23	24	4.6	14.1	6.1
Blue Mt. Springs Pillow*	12/23		3.8	7.7	-
Blue Mountain Summit	12/23	20	3.5	7.8	3.3
Butte Creek Summit	1/6	10	2.1	1.4	-
Derr	c				
Gold Center	c				
Indian Creek Butte <sup>e</sup>	c				
Izee Summit	1/2	18	3.6	5.3	3.0
Lucky Strike	c				
Lucky Strike Pillow*	c				
Marks Creek	12/31	10	2.0	2.4	1.9
Ochoco Meadows	c				
Olive Lake <sup>e</sup>	c				
Schoolmarm	12/30	16	3.0	2.6	1.9
Snow Mountain	c				
Snow Mt. Pillow**	1/1	-	3.0		
Starr Ridge	1/2	17	3.6	4.8	2.2
Tipton	12/30	31	6.0	11.3	4.2
Tipton Snow Pillow*	12/30		6.0	12.5	-

### UPPER DESCHUTES, CROOKED WATERSHEDS

Bald Peter	12/30	50	14.2	27.8	-
Caldwell Ranch	c				
Cascade Summit	12/30	42	10.8	20.2	10.7
Chemult	12/30	15	2.3	6.9	4.0
Chemult Alternate	12/30	19	3.2	8.0	-
Derr	c				
Hogg Pass	12/30	49	14.9	28.5	14.5
Hungry Flat	12/28	11	1.9	3.9	3.5 <sup>m</sup>
Irish-Taylor Pillow**	12/31	-	19.5	31.2	-
Lionshead <sup>e</sup>	b			11.3	-
Marks Creek	12/31	10	2.0	2.4	1.9
New Crescent Lake	c				
New Dutchman Flat #2	12/28	74	25.2	50.5	22.3
Ochoco Meadows	c				
Racing Creek	12/30	22	5.8	14.4	-
Snow Mountain	c				
Snow Mt. Pillow**	c				
Tamarack	c				
Tangent	12/28	36	10.0	18.1	8.4 <sup>h</sup>
Three Creek Butte	c				
Three Creek Meadow	c				
Three Creek Mdw. Pillow**	b			15.6	-
Waldo Lake	c				
Whitewater Meadow <sup>e</sup>	b			3.1	-
Willamette Pass	c				
Willamette Pass Pillow**	b			24.5	-

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	c				
Clear Lake	12/27	7	1.0	8.0	3.4
Clear Lake (Experimental)	12/27	20	4.2	13.4	5.4 <sup>h</sup>
Cooper Spur	12/30	13	2.5	12.7	6.2 <sup>h</sup>
Greenpoint	c				
Knebal Springs	c				
Mt. Hood Test Site**	b			37.7	22.9
Red Hill	c				
Still Creek	12/27	23	5.4	20.4	7.9
Still Creek Alt. #2	b				
Switchback	c				
Tilly Jane	c				
Ulrich Ranch Junction	c				
Umbrella Falls	c				
WILLAMETTE WATERSHEDS					
Cascade Summit	12/30	42	10.8	20.2	10.7
Champion	12/27	36	9.6	28.5	11.2 <sup>h</sup>
Clackamas Lake	c				
Clear Lake	12/27	7	1.0	8.0	3.4
Clear Lake (Expt.)	12/27	20	4.2	13.4	5.4 <sup>h</sup>
Dead Horse Grade	12/26	19	4.5	8.3	6.4
Detroit (Town)	12/30	3	0.3	0.0	1.0
Detroit Dam	12/30	T	T	0.0	0.5
Golden Curry Creek	12/27	4	0.5	0.0	2.3 <sup>m</sup>
Hogg Pass	12/30	49	14.9	28.5	14.5
Lake Harriet	12/31	0		T	1.1 <sup>m</sup>
Laurel Mountain	12/30	2	0.2	T	-
Layng Creek	12/27	T	T	0.0	0.1
Lookout Point Dam	12/30	0	0.0	0.0	0.0 <sup>h</sup>
Lost Creek Ranch	12/26	7	1.4	0.0	2.0
Lund Park	12/27	1	0.1	0.0	T <sup>h</sup>
Marion Forks	12/30	11	1.6	12.3	4.7 <sup>h</sup>
Marys Peak	c				
McCredie Springs	12/30	T	T	0.0	0.5 <sup>h</sup>
McKenzie	12/26	53	24.2	41.4	17.8
McKenzie Bridge	12/26	0	0.0	0.0	0.6
Mill City	12/30	0	0.0	0.0	0.2
Mt. Hood Test Site**	b			37.7	22.9
Oakridge	12/30	0	0.0	0.0	0.0 <sup>h</sup>
Peavine Ridge	1/1	-	3.1		
Peavine Ridge Pillow**	1/1	-	2.7	15.5	5.7 <sup>h</sup>
Railrod Overpass	12/30	9	1.2	0.0	0.8 <sup>h</sup>
Saddle Mountain Pillow**	1/1	-	1.2	3.3	-
Salt Creek Falls	12/30	17	2.7	10.2	5.2
Santiam Junction	12/30	34	9.2	21.2	8.6 <sup>h</sup>
Seine Creek Pillow**	1/1	-	0.3	0.0	-
Still Creek	12/27	23	5.4	20.4	7.9
Still Creek Alt. #2	b				
Timothy Lake	12/31	15	2.8	12.7	6.3 <sup>m</sup>
Valsetz Summit	12/30	T	T	0.0	-
Vida	12/26	0	0.0	0.0	0.2
Waldo Lake	c				
Weaver Creek	12/27			0.0	0.4 <sup>m</sup>
White Branch Slide	12/26	10	2.0	T	3.1
Whitewater Bridge	12/30	7	1.0	3.2	2.3 <sup>h</sup>
Willamette Pass	c				
Willamette Pass Pillow**	b			24.5	-

# BASIC DATA SUPPLEMENT 1

JANUARY 1, 1975

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

ROGUE, UMPQUA WATERSHEDS					
Althouse	c				
Annie Spring	1/6	58	18.8	35.3	16.3
Beaver Dam Creek	12/30	21	4.6	10.4	6.6 <sup>m</sup>
Big Red Mountain	c				
Billie Creek Divide	12/30	37	9.6	13.8	8.7 <sup>h</sup>
Caliban	c				
Caliban (Alternate)	c				
Champion	12/27	36	9.6	28.5	11.2 <sup>h</sup>
Cold Springs Camp	c				
Cold Spgs. Camp Pillow**	b			27.2	- -
Deadwood Junction	12/30	18	2.4	5.4	4.0 <sup>h</sup>
Diamond-Crater Sum.	12/30	49	13.4	24.1	11.3 <sup>h</sup>
Diamond Lake	12/30	34	8.5	16.9	7.6 <sup>h</sup>
Fish Lake	12/30	28	5.6	8.9	5.6 <sup>h</sup>
Fourmile Lake	c			20.6	- -
Grayback Peak	c				
Howard Prairie Reservoir	12/30	15	2.4	5.6	3.9 <sup>h</sup>
Hyatt Prairie	12/30	14	2.3	6.0	3.7 <sup>m</sup>
King Mountain #1	12/30	20	3.9	2.9	8.3 <sup>m</sup>
King Mountain #2	12/30	21	3.9	0.0	6.5 <sup>m</sup>
King Mountain #3	12/30	10	1.8	0.0	3.4 <sup>m</sup>
King Mountain #4	12/30	4	0.7	0.0	0.2 <sup>m</sup>
King Mountain #5	12/30	4	0.7	0.0	0.0 <sup>m</sup>
King Mountain #6	12/30	3	0.6	0.0	0.0 <sup>m</sup>
Little Red Mountain	c				
Mt. Ashland Switchback	c				
Mule Creek	12/30	5	1.1	0.0	- -
North Umpqua	12/31	27	7.2	12.5	6.0
Page Mountain	c				
Park Headquarters	1/6	80	29.6	48.5	23.3
Red Butte #1	12/28	18	2.8	10.3	6.5 <sup>m</sup>
Red Butte #2	12/28	13	1.6	2.7	4.0 <sup>m</sup>
Red Butte #3	12/28	7	1.0	0.0	2.8 <sup>m</sup>
Red Butte #4	12/28	3	0.7	0.0	1.8 <sup>m</sup>
Red Butte #5	12/28	2	0.3	0.0	2.2 <sup>m</sup>
Red Butte #6	12/28	2	0.2	0.0	0.6 <sup>m</sup>
Seven Mile	c				
Silver Burn	12/31	27	5.1	8.2	5.6
Siskiyou Summit	12/30	15	2.4	1.2	3.7 <sup>h</sup>
Ski Bowl Road	c				
South Fork Canal	1/7	10	2.4	0.0	2.1
Trap Creek	12/31	23	5.5	10.0	5.2 <sup>h</sup>
Whaleback	c				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

KLAMATH WATERSHEDS					
Annie Spring	1/6	58	18.8	35.3	16.3
Billie Creek Divide	12/30	37	9.6	13.8	8.7 <sup>h</sup>
Billie Creek Divide Pillow	12/30		8.8		
Chemult	12/30	15	2.3	6.9	4.0
Chemult (Alternate)	12/30	19	3.2	8.0	- -
Chiloquin (PP&L)	b			0.6	0.6 <sup>m</sup>
Cold Springs Camp	c				
Cold Springs Camp Pillow**	b			27.2	- -
Crazyman Flat <sup>e</sup>	c				
Crowder Flat <sup>e</sup> (Calif.)	c				
Crystal (PP&L)	12/30	12	2.5	4.5	3.9
Diamond-Crater Sum	12/30	49	13.4	24.1	11.3 <sup>h</sup>
Diamond Lake Junction (97)	12/30	10	2.0	2.6	2.4 <sup>h</sup>
Dog Hollow <sup>e</sup>	c				
Finley Corrals <sup>e</sup>	c				
Fort Klamath (PP&L)	12/31	10	2.1	1.2	1.7
Fourmile Lake	c			20.6	- -
Fourmile Lake Pillow	c				
Gerber	1/6	15	2.7	1.0	1.1 <sup>h</sup>
Harriman (PP&L)	12/31	11	2.4	3.5	1.8
Howard Prairie	12/30	15	2.4	5.6	3.9 <sup>h</sup>
Hyatt Prairie Rservoir	12/30	14	2.3	6.0	3.7
Kirk (PP&L)	b			3.8	3.3 <sup>m</sup>
Park Headquarters	1/6	80	29.6	48.5	23.3
Quartz Mountain	12/30	15	3.1	1.7	2.6
Seven Mile	c				
Seven Mile Pillow	c				
State Line <sup>e</sup> (Calif.)	c				
Strawberry	c				
Summer Rim	c				
Summer Rim Pillow*	c				
Sycan Flat <sup>e</sup>	c				
Taylor Butte	12/27	8	1.0	2.7	2.3 <sup>h</sup>
Taylor Butte Pillow	12/27		0.7		

## LAKE COUNTY, GOOSE LAKE WATERSHEDS

Adin Mountain (Calif.)	c				
Bald Mountain (Nev.)	c				
Bear Flat Meadow <sup>e</sup>	c				
Camas Creek	12/30	14	2.8	4.8	4.1 <sup>m</sup>
Cedar Pass (Calif.)	c				
Colvin Creek <sup>e</sup>	c				
Cox Flat <sup>e</sup>	c				
Crowder Flat <sup>e</sup> (Calif.)	c				
Dismal Swamp <sup>e</sup> (Calif.)	c				
Finley Corrals <sup>e</sup>	c				
Hart Mountain <sup>e</sup>	c				
Little Bally Mtn <sup>e</sup> (Nev.)	c				
Mt. Bidwell (Calif.)	c				
North Star (Calif.)	c				
Patton Meadows <sup>e</sup>	c				
Quartz Mountain	12/30	15	3.1	1.7	2.6
Sherman Valley <sup>e</sup>	c				
Silver Creek	12/27	7	0.7	0.7	1.5
State Line <sup>e</sup> (Calif.)	c				
Strawberry	c				
Summer Rim	c				
Summer Rim Pillow*	c				
Sycan Flat <sup>e</sup>	c				
Willow Creek	c				



# BASIC DATA SUPPLEMENT 1

JANUARY 1, 1975

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave.†

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

### HARNEY BASIN WATERSHEDS

Blue Mountain Springs	12/23	24	4.6	14.1	6.1
Blue Mtn. Springs Pillow*	12/23		3.8	7.7	- -
Buck Pasture <sup>e</sup>	c				
Buckskin Lake <sup>e</sup>	c				
Call Meadows <sup>e</sup>	c				
Delintment Lake	c				
Denio Creek <sup>e</sup>	c				
Disaster Peak (Nev.)	c				
Emigrant Butte	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Hart Mountain <sup>e</sup>	c				
Idlewild Camp	12/24	10	1.6	5.0	1.8
Idlewild Camp Alternate	12/24	7	1.4	4.6	- -
Izee Summit	1/2	18	3.6	5.3	3.0
Lake Creek R.S.	12/23	23	4.2	7.7	3.8 <sup>h</sup>
Oregon Canyon <sup>e</sup>	c				
Rock Spring	1/2	14	2.6	3.4	1.8
Silvies	c				
Silvies Pillow*	c				
Snow Mountain	c				
Snow Mountain Pillow**	c				
Starr Ridge	1/2	17	3.6	4.8	2.2
Stinking Water	12/31	9	1.9	2.7	1.4 <sup>h</sup>
Trout Creek <sup>e</sup>	c				
"V" Lake <sup>e</sup>	c				

\*Manometer reading.

\*\*Telemetry reading.

Note: The following snow courses have been discontinued:

Triangle  
Williams Ranch  
Upper Valley  
Seven Lakes #2  
Beech Creek Summit  
Parkdale  
Lake of the Woods  
Weston Mountain

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 2

JANUARY 1, 1975

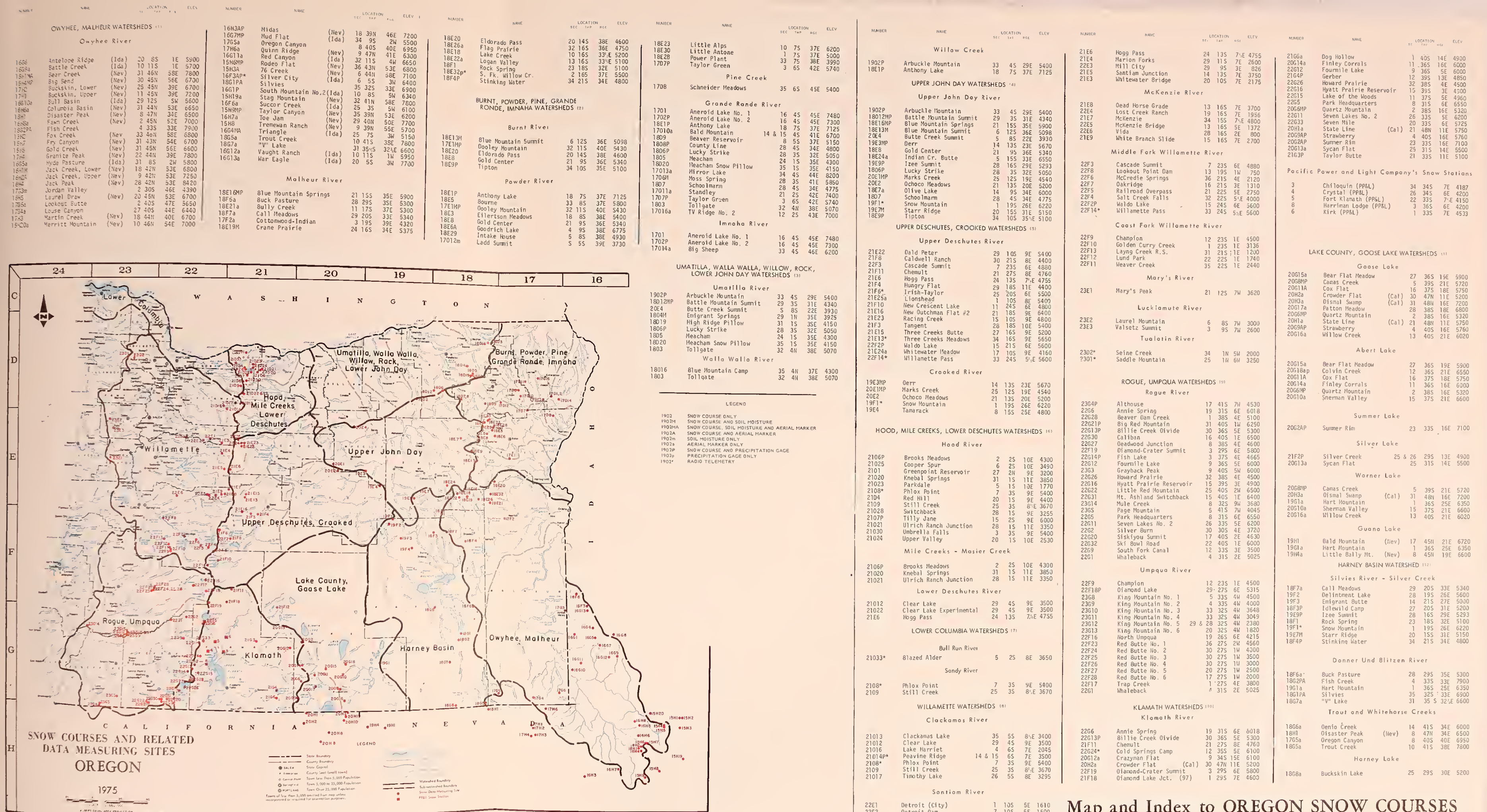
## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend	6700	48	16.7	1/2	13.5	14.4	14.2
Blue Mountain Spring	5900	42	16.9	12/23	6.2	11.4	9.0
Mud Flat (Ida.)	5500	48	12.8	c			
Rodeo Flat (Nev.)	6800	42	11.0	1/2	4.8	7.4	8.6
Taylor Canyon (Nev.)	6200	48	15.1	1/2	7.7	10.6	11.6
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	b		12.3	8.7
Dooley Mountain	5430	36	9.2	1/6	2.4	3.8	4.0
Emigrant Springs	3925	48	22.3	12/30	17.1	20.9	18.6
Ladd Summit	3730	48	18.9	12/31	9.2	11.0	10.0
Moss Springs	5850	36	25.8	b			
Tollgate	5070	48	23.6	12/27	14.2	14.2	18.7
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/30	11.7	13.7	11.7
Emigrant Springs	3925	48	22.3	12/30	17.1	20.9	18.6
Tollgate	5070	48	23.6	12/27	14.2	14.2	18.7
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/30	11.7	13.7	11.7
Blue Mountain Spring	5900	42	16.9	12/23	6.2	11.4	9.0
Blue Mountain Summit	5100	36	16.8	b		12.3	8.7
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	12/31	8.2	13.4	10.2
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	1/2	7.8	10.6	8.9
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	12/31	8.2	13.4	10.2
Snow Mountain	6300	48	16.7	c			
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	12/30	5.9	7.9	8.6









Map and Index to OREGON SNOW COURSES





# The Following Organizations Cooperate in the Oregon Snow Survey Work

## STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

## COUNTY

- Douglas County Water Resources Survey

## FEDERAL

- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - National Park Service
- Department of National Defense
  - Corps of Army Engineers

## PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

## MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

## IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

## PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon



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